

Claims

I claim:

5 1) A method for installing a pier, comprising the steps of:

driving a pier down into a ground adjacent to a footer of a building;

placing a pier cap stabilizer shaft over said pier such that a shelf mounted to said
10 pier cap stabilizer shaft extends away from said footer;

sliding said pier cap stabilizer shaft down on said pier until said shelf is below a
bottom surface of said footer;

15 rotating said pier cap stabilizer shaft in order to position said shelf under said
footer;

placing a screw jack assembly on said shelf such that said screw jack assembly
extends from said shelf up against the bottom surface of said footer; and

20 raising said footer.

2) The method of claim 1, wherein said pier is a helical pier.

25 3) The method of claim 2, wherein said pier is a straight pier.

4) The method of claim 3, wherein said straight pier includes a pier cap mounted at a bottom end of said pier.

5 5) The method of claim 1, wherein placing said pier cap stabilizer shaft over said pier comprises the steps of:

placing a tube having a shelf over said pier such that said shelf extends under said footer;

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placing a shaft through said tube, said shaft extends over said pier;

inserting a pin through said shaft and said tube, thereby securing said tube to said shaft over said pier.

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6) The method of claim 1, further comprising the step of:

placing a hydraulic ram on said shelf under said screw jack.

20 7) A method for installing a pier on a bulding, comprising the steps of:

excavating an area of earth around a footer;

driving a pier through said earth to a weight bearing stratum;

placing a shelf on said pier such that said shelf extends above and away from said footer;

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pushing said shelf below said footer;

rotating said shelf under said footer;

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raising said building on said shelf; and

adjustably extending a screw jack assembly between a top surface of said shelf and a bottom surface of said footer.

15 8) The method of claim 7, further comprising the step of mounting a top portion of said pier to said footer with a pin.

9) The method of claim 7, wherein said shelf is mounted to a pier cap stabilizer shaft, wherein said pier cap stabilizer shaft extends over said pier.

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10) The method of claim 9, wherein a top portion of said pier cap stabilizer shaft extends above said footer and attaches to said footer with a pin.

12) The method of claim 7, further comprising the step of placing a flexible bag of structural material between a top surface of said screw jack assembly and the bottom surface of said footer.

5 13) The method of claim 7, further comprising the step of pushing said screw jack assembly with a hydraulic ram.

14) A method for installing a pier, comprising the steps of:

10 driving a pier down into the ground adjacent to a footer of a building, wherein said pier extends through a notch formed in said footer;

placing a pier cap stabilizer shaft over said pier such that a shelf mounted to said pier cap stabilizer shaft extends away from said footer;

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sliding said pier cap stabilizer shaft down over said pier until said shelf is below a bottom surface of said footer and a pin extending through said pier cap stabilizer shaft contacts a top surface of said pier;

20 rotating said pier cap stabilizer shaft in order to position said shelf beneath a bottom surface of said footer;

placing a screw jack assembly on said shelf such that said screw jack assembly extends from said shelf up against the bottom surface of said footer; and

raising said footer.

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15) The method of claim 14, wherein said driving said pier is done vertically with respect to said footer.

16) The method of claim 14, wherein said driving said pier is done at an angle with
10 respect to said footer.

17) The method of claim 14, further comprising the step of securing a top portion of said pier cap stabilizer shaft to said footer with a pin.

15 18) The method of claim 14, further comprising the step of placing a bag of structural material between said footer and said screw jack.

19) The method of claim 14, wherein said pier has a helix mounted at a bottom end.

20 20) The method of claim 14, wherein said screw jack assembly is placed over a rod mounted to said shelf, wherein said rod fits within a jack sleeve of said screw jack assembly, thereby aligning said screw jack assembly on said shelf.